

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q92252

Yasuharu ONISHI, et al.

Appln. No.: 10/562,578

Group Art Unit: 3662

Confirmation No.: 7872

Examiner: Not Yet Assigned

Filed: December 27, 2005

For:

PIEZOELECTRIC ACTUATOR

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

For the Examiner's convenience, enclosed herewith is a copy of the English translation of the International Preliminary Report on Patentability (IPRP). It is assumed that copies of the cited references as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

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CUSTOMER NUMBER

Date: November 9, 2006

Respectfully submitted,

Howard L./Bernstein

Registratión No. 25,665

Bibliographic Data

Application Number:

10/562,578

Filing or 371 (c) Date: 12-27-2005

Application Type:

Utility

Examiner Name:

2834

Confirmation Number: 7872

Attorney Docket

Group Art Unit:

Number:

Q92252

Class / Subclass:

Title of Invention:

Close Window

First Named Inventor: Yasuharu Onishi , Minato-Ku, (JP)

310/328

Piezoelectric actuator

Customer Number: 23373

Status:

TSS review complete

US 2006-0159295 A1

Status Date:

10-26-2006 **ELECTRONIC**

07-20-2006

Location: Location Date:

Earliest Publication

No:

Earliest Publication

Date:

Patent Number:

Issue Date of

Patent:

11/8/2006

PATENT COOPERATION TREATY

To:

From the INTERNATIONAL BUREAU

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

MIYAZAKI, Teruo MIYAZAKI, reido 8th Floor, 16th Kowa Blood 9-20, Akasaka 1-chome Minato-ku, Tokyo 1070052 JAPON

Date of mailing (day/month/year) 03 August 2006 (03.08.2006)	
Applicant's or agent's file reference NEC04P197	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/018002	International filing date (day/month/year) 03 December 2004 (03.12.2004)
Applicant	NEC CORPORATION et al

l.	Transmittal	of the	translation to	the ap	plicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report of patentability (Chapter I).
The International Bureau transmits herewith a copy of the English translation of the international preliminary report or patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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 $3. \ \ Reminder\ regarding\ translation\ into\ (one\ of)\ the\ official\ language(s)\ of\ the\ elected\ Office(s).$

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

Authorized officer The International Bureau of WIPO 34, chemin des Colombettes Yoshiko Kuwahara 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70 Facsimile No. +41 22 338 82 70

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NEC04P197	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2004/018002	International filing date (day/month/year) 03 December 2004 (03.12.2004)	Priority date (day/month/year) 26 December 2003 (26.12.2003)
International Patent Classification (8t See relevant information in Form I	h edition unless older edition indicated) PCT/ISA/237	
Applicant NEC CORPORATION		

1.	This international preliminary re International Searching Authority	port on patentability (Chapter y under Rule 44 bis. 1(a).	I) is issued by the International Bureau on behalf of the		
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention			
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement		
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inter	national application		
	Box No. VIII	Certain observations on the	e international application		
4.	The International Bureau will co not, except where the applicant r date (Rule 44bis .2).	mmunicate this report to designakes an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority		
			Du Girana Ghianna		
			Date of issuance of this report 24 July 2006 (24.07.2006)		
	The International Dame	on of WIDO	Authorized officer		

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Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION NEC04P197 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/018002 03.12.2004 26.12.2003 International Patent Classification (IPC) or both national classification and IPC Applicant NEC CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Telephone No.

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/018002

Box	No. I	Basis of this opinion
1.	With filed.	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	. which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/018002

Box No. V			HING AUTHORIT	•	PCI/JP	2004/018002
			le 43bis.1(a)(i) with porting such statem		, inventive step or indust	rial applicability;
1. Statement	Citations and expira	illations sup	porting such statem	ciit		
Novelt	y (N)	Claims	1-13			YE
		Claims				NC
Inventi	ve step (IS)	Claims	1-13			YE
		Claims	-			
				-		
Industr	ial applicability (IA) .	Claims	1-13			YE
		Claims			<u> </u>	NC
2. Citations a	and explanations:					<u></u>
March, A, & W Claims and a n the crys	1999 (09.03.99). O, 99-9647, A1, 1-13 Cited document netal diaphragm i stal oscillating picture.	columns & HK, 1 I describ s bonded ece is "du ibe nor so	o 0005 and 0011 025193. A bes that the piez to a case via a sually supported' uggest that the p	-0013, Fig. 1 oelectric vibi	ly named Citizen M , & US, 6396201, I rator formed by a pi ber. Cited documen e. However, both o substance is fixed to	ezoelectric element 2 describes that f the cited